Lake Trout Population Assessment

Wellesley Lake
1997, 2002, 2007

Prepared by:
Lars Jessup
Fish and Wildlife Branch

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Yukon Department of Environment
Fish and Wildlife Branch, V-5A
Box 2703, Whitehorse, Yukon Y1A 2C6

Copies available from:

Yukon Department of Environment
Fish and Wildlife Branch, V-5A
Box 2703, Whitehorse, Yukon Y1A 2C6
Phone (867) 667-5721, Fax (867) 393-6263
Email: environmentyukon@gov.yk.ca

Also available online at www.environmentyukon.gov.yk.ca

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SUMMARY

Environment Yukon has been conducting assessments of important fish stocks since 1991. Priority lakes are identified for survey based on accessibility, sensitivity, and management concern. Environment Yukon works with user groups, First Nations and Renewable Resources Councils to establish priorities for assessment. Assessments focus on lake trout, which is considered an indicator species of the health of northern aquatic ecosystems.

Wellesley Lake is a popular fly-in fishery, with a commercial lodge that has been operating since the 1970s. Surveys were done on this lake in 1997, 2002, and 2007 based on a 5-year survey rotation for lakes with important recreational harvests. The results of this work identified no change in lake trout numbers or average condition among the three surveys.

In 2002, because of concerns about possible over-exploitation of lake trout, new regulations were put in place for Wellesley Lake. The catch and possession limit of lake trout was reduced from 2 to 1 and the maximum size limit was set at 65cm.

While we detected no change as a result of implementing the new harvest limit on lake trout, the methods used in this study were only sensitive to measure large (± 100%) responses. Future population assessments should use other methods that are better able to detect changes in the fish populations of Wellesley Lake. An alternate way to evaluate the response of the lake trout population to the 2002 regulation change would be to seek the experienced opinion of the lodge operator and examine catch records.

KEY FINDINGS

- Results of these surveys do not identify any management concerns for fish populations in Wellesley Lake.
- The lake trout population appeared stable between 1997 and 2007.
- Average condition of lake trout remained constant through survey years.
- Current methods are coarse; only large (± 100%) changes in fish abundance can be detected.

INTRODUCTION

Since 1991, Environment Yukon has surveyed over 100 Yukon lakes using standardized methods. Lakes are chosen for assessment based on the level of the active commercial, recreational, or aboriginal subsistence fisheries, as well as the level of available fisheries information. Lakes with significant harvest pressure are surveyed on a regular basis. The survey consists of setting non-lethal gillnets at different locations around the lake and recording biological information about the catch. To allow comparison of results among years the same methods are used each time the survey is done. The survey typically determines:

- the relative abundance of lake trout and lake whitefish compared to past surveys;
- length and weight of individual lake trout and lake whitefish; and
- length and weight of other fish species caught.

We did fisheries surveys on Wellesley Lake in 1997, 2002, and 2007 and here we report on data from all 3 study years.

Study Area

Wellesley Lake is located on the Kluane Plateau about 50 km east of Beaver Creek (Figure 1). It is approximately 13.5 km long and 6.5 km wide and covers an area of 73.8 km^2. The lake has an average depth of 23.8 m and a maximum depth of 47.0 m. Wellesley Lake has a relatively small drainage basin and has no major in-flow streams. It is fed by small, unnamed streams and groundwater flow from the within the Wellesley Lake basin. Wellesley Creek drains the lake and flows northeast into the Donjek River.

In 2002, new regulations reduced the catch and possession limit in Wellesley Lake from 2 to 1 lake trout and set a maximum size limit of 65 cm (26 in). These management actions were expected to result in an increase in the lake trout population as measured by an increase in the catch per unit effort.

METHODS

We used commonly applied techniques (adapted from Lester *et al.* 1991) to catch fish in this study: we set small-mesh, multi-filament gill nets during the day. In small-mesh nets, lake trout tend to be caught by their teeth and jaws rather than by their gills and few fish are killed or injured using this method. Aiming to reach a net set density of 0.75 sets per square kilometre of lake surface area, we set gillnets at between 36 and 55 locations around the lakeshore (Table 1, Appendix 1).

Table 1. Sampling information for Wellesley Lake surveys.

Year	Dates	Number of Sets	Set Density (sets/km^2)	Water Temperature (°C) Average	Range
2007	June 11 - 14	49	0.66	12	8 – 15
2002	June 24 - 27	36	0.49	10	9 – 12
1997	June 11 - 15	55	0.75	10	8 – 14

Each net set was made up of 3 panels. Each panel was 22.9 m wide and 2.4 m deep and had a mesh size of 3.8, 6.4, or 7.6 cm (in that order). Nets were set perpendicular to the shoreline with the near-shore end in at least 2.4 m water. The offshore end was sunk with heavy anchors to ensure the net ran along the bottom of the lake. We alternated between setting the small (3.8 cm) and large (7.6 cm) mesh panels closest to shore to address the issue of net configuration bias (Lester *et al*. 1991). We checked the nets after one hour. For each net set we recorded location, surface water temperature, and the depth of the offshore anchor.

We used the number of fish caught to estimate catch per unit effort (CPUE). CPUE is defined as the number of fish (of a certain species) caught per unit time. Using this method we cannot estimate the absolute abundance (number) of fish in a lake, but we can use CPUE as an index of abundance and use it to compare between years and to detect population trends (i.e., relative abundance).

For each fish caught we noted the size of mesh in which it was caught, species, length, and weight. We released all fish at or near the sampling location. For the few fish that died, we recorded sex and maturity, collected the stomach contents for diet analysis and the otoliths to determine age. Data on diet, age, sex and maturity are not reported here but can be obtained from Environment Yukon.

Although we targeted lake trout, these methods may also be applicable to lake whitefish if catches are consistent. However, as lake whitefish are under no harvest pressure in Wellesley Lake, no comparisons were made. Because we cannot consistently catch warm-water species such as Northern pike or schooling species like round whitefish with these methods we do not make statistical comparisons of CPUE for them.

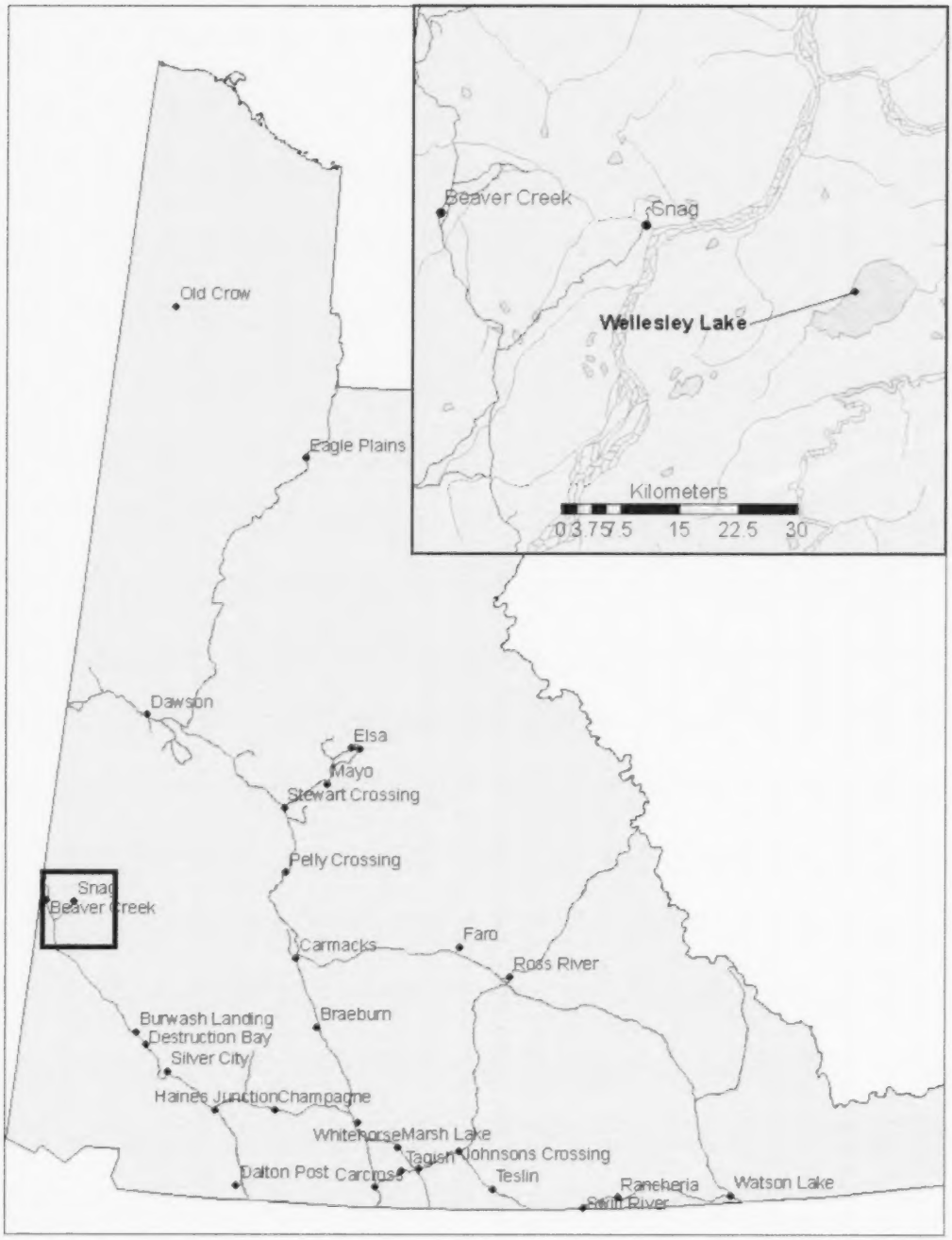

Figure 1. Location of Wellesley Lake, Yukon.

Data Analysis

CPUE is calculated as: CPUE = number of fish caught / time (standardized to 1 hour). The frequency distribution of CPUE data is heavily right-skewed with many data points at zero (Table 2). Because of the non-normality of the data, we used the non-parametric Kruskal-Wallis test to compare CPUE among years. The Kruskal-Wallis test does not directly compare the mean CPUE but ranks the data and then compares the mean ranks. To calculate the power of the Kruskal-Wallis test we used bootstrap methods; we re-sampled with replacement from each of the 3 years, and performed the test 1000 times. We then took the proportion of those 1000 tests that resulted in a significant change to represent the *power* of the test. *Statistical power* is the chance of detecting a change when it exists.

To estimate statistical power needed for future surveys we simulated possible catch distributions using a Poisson distribution and compared this distribution to the 2007 data. We used bootstrap methods to run the simulations 1000 times and to predict the power to detect a 50% increase, a 50% decrease, and a 100% increase in population size. We also examined the effect of increasing the sample size on the ability to detect change.

We used regression analysis to detect trends in CPUE over time. Because we had only the minimum number of data points (3 years) needed to do this analysis, the results provide limited statistical information but can be used to detect trends. However, limited weight is placed on the result of the regression analysis.

We used ANOVA to compare the length and weight of lake trout between years. The relationship between a fish's weight and length can be described as its *condition factor* (K) and is calculated as: K = (Weight (g)/Length (cm^3)) x 100. The heavier a fish is at a given length, the better its condition. At the individual level, K can be a crude indication of fish health. We averaged K over the entire catch and used this as an indication of overall condition of lake trout within the population.

RESULTS and DISCUSSION

Lake Trout Catch and Effort

CPUE in 2007, 2002, and 1997 was 0.41, 0.36, and 0.47. We found no difference in CPUE between years (Kruskal-Wallis: $X^2_{(df = 2)} = 0.180$, $P = 0.914$; Table 3) nor did we find any significant trend through time (b (slope) = -0.007, $r^2 = 0.001$, $F = 0.167$, $P = 0.684$). In other words, we did not detect a change in the relative abundance of lake trout over this 10-year period. Predicted power to detect change in future surveys at current sample size (50 sets) is 0.40 for a 50% increase in the population, 0.30 for a 50% decrease, and 0.79 for a 100% increase. The results of this power analysis suggest that we do not have sufficient statistical power to detect potential changes of less than a 100%

increase of CPUE between surveys. This is a fairly coarse scale at which to estimate population changes for management purposes; we would prefer to be able to detect changes of 50% or less with good power (0.80). In this context, a further CPUE survey in 5 years (regular rotation) is not recommended as we would likely be able to detect only very large changes in our population index. In addition, declines in populations of lake trout (e.g., due to overfishing, habitat loss, disease, etc.) may generally be observed over shorter time spans than increases in population. Population growth or recovery may only be apparent after 10 or 15 years because northern lake trout populations have slow growth and low reproductive rates.

Table 2. Number of lake trout caught per set net in Wellesley Lake in 1997, 2002, and 2007.

	2007		2002		1997	
Number caught	Number of sets	Percent	Number of sets	Percent	Number of sets	Percent
0	34	69%	27	75%	39	71%
1	12	24%	5	14%	11	20%
2	2	4%	4	11%	3	5%
3						
4	1	2%			1	2%
5					1	2%
Total	49	100%	36	100%	55	100%

Biological Characteristics of Lake Trout

Lake trout length ranged from 330 to 875 mm in 1997, 495 to 770 mm in 2002, and 548 to 835 mm in 2007. Lake trout caught in 2007 were neither longer nor heavier than lake trout caught in previous years (ANOVA: $F_{(2,55)} = 0.38$, $P = 0.69$ and $F_{(2,55)} = 0.83$, $P = 0.44$ respectively). Similarly, the average condition factor (K) did not change between years (ANOVA: $F_{(2, 55)} = 0.12$, $P = 0.89$; Table 3).

Table 3. Morphological data for lake trout from Wellesley Lake.

Year	Total Catch	Average length (mm)	Average weight (g)	Average Condition Factor (K)	% of Catch by Weight
2007	20	634	2808	1.03	20.17
2002	13	626	2654	1.06	18.88
1997	26	655	3362	1.03	22.02

Other Fish Species

Most of the total catch in all years was lake whitefish followed by round whitefish, lake trout, and Northern pike (Table 4). We also caught one burbot in 1997.

Table 4. Summary of catch data from Wellesley Lake.

Species	Year	Total Number of Sets	Total Catch	Average length (mm)	Average weight (g)	CPUE (# fish caught per hour net set)	Proportion of Total Catch
Lake trout	2007	49	20	634	2808	0.41	0.15
	2002	43	13	626	2654	0.36	0.07
	1997	55	26	655	3362	0.47	0.12
	Average	49	20	641	3022	0.41	0.11
Burbot	2007	49	-	-	-	-	0.00
	2002	43	-	-	-	-	
	1997	55	1	800	4500	0.02	
	Average	49	-	-	-	-	-
Lake whitefish	2007	49	81	494	1622	1.65	0.61
	2002	42	122	392	938	2.40	0.68
	1997	55	154	539	1609	2.80	0.68
	Average	49	119	474	1383	2.61	0.66
Northern pike	2007	49	27	732	2924	0.55	0.20
	2002	43	10	765	2760	0.28	0.06
	1997	55	20	744	2685	0.36	0.09
	Average	49	19	742	2811	0.40	0.12
Round whitefish	2007	49	4	279	225	0.08	0.03
	2002	43	35	244	177	0.97	0.19
	1997	55	25	228	138	0.45	0.11
	Average	49	21	240	165	0.50	0.11

Factors Affecting Results

Catch can vary within a lake when netting is done under different environmental conditions. To be comparable, it is important that all surveys are done when fish are equally susceptible to being caught.

Surveys are done in the spring, when lake trout are using shallow, cool water habitats along the lakeshore. If average surface water temperatures exceed threshold levels (often cited as 13°C) then lake trout move to deeper, colder water and are less likely to be caught in near-shore nets. Surface temperature averages were below this threshold level in all 3 surveys, but maximum temperature recorded did exceed this on occasion (Table 1). We do not consider temperature to have affected the results of this study.

CPUE results cannot be extrapolated to the entire lake. Because net sets were not distributed randomly across the lake results cannot be scaled up to give an estimate of absolute abundance of fish. However, because our methods are identical from year to year we can compare results through time on a single lake.

Comparisons of results among lake must be done cautiously. Lake productivity (the amount of food available for fish) can vary greatly among lakes. Fish abundance considered low for one lake may be moderate or high for another based on each lake's potential for fish production. Our methods are

identical from lake to lake, but care needs to be exercised when making comparisons between lakes.

Recommendations

Because of the ambiguous results of this and previous surveys, I recommend that the survey scheduled for 2012 not be done. To obtain more robust data on lake trout and other fish populations in Wellesley Lake a more statistically robust study design should be developed. The downside to changing the survey method will be our inability to understand the effects of the 2002 regulation changes on the lake trout population.through direct comparisons with existing information. In absence of survey data the catch records combined with the experienced opinion of the lodge operator could help identify any changes in the lake trout population.

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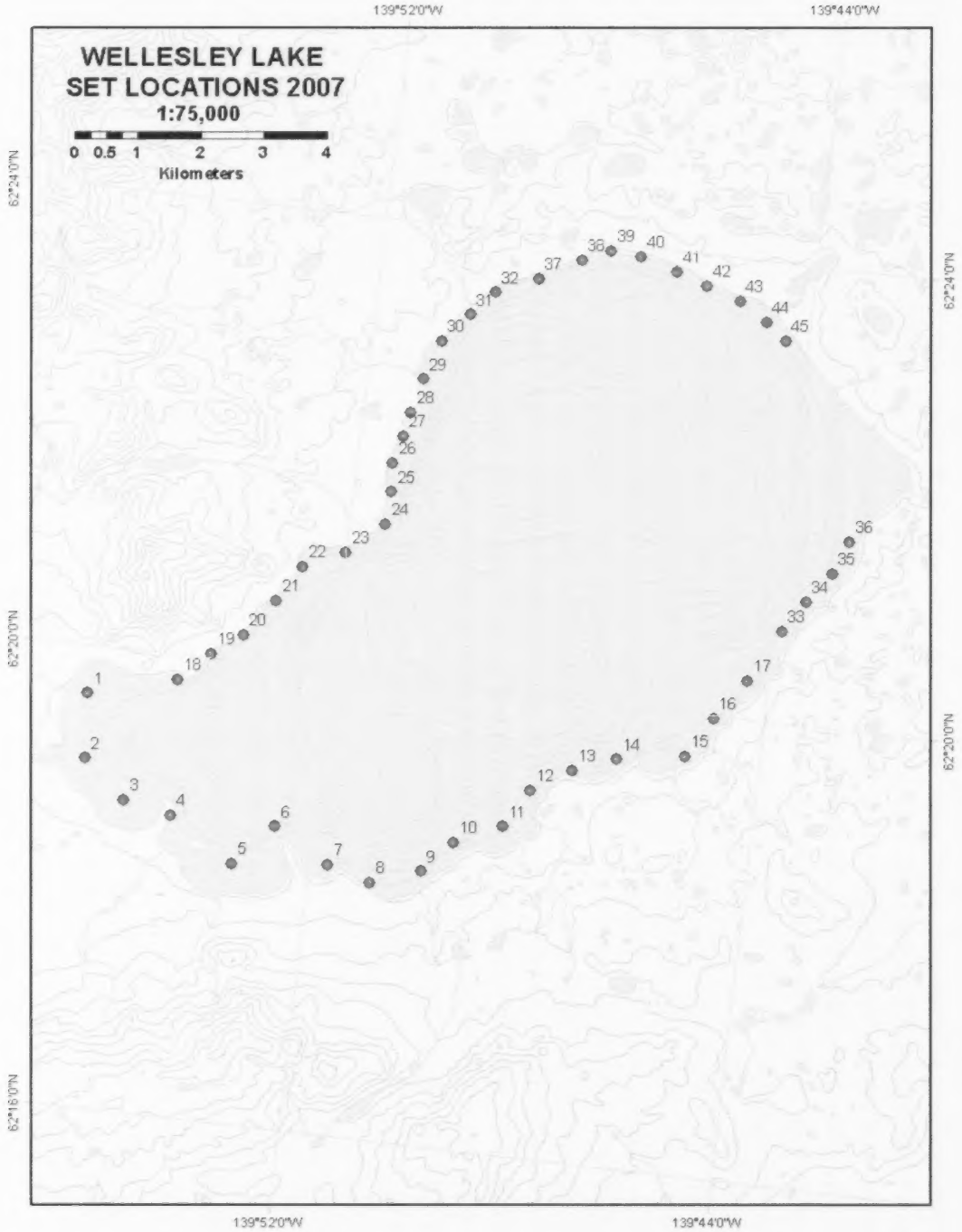
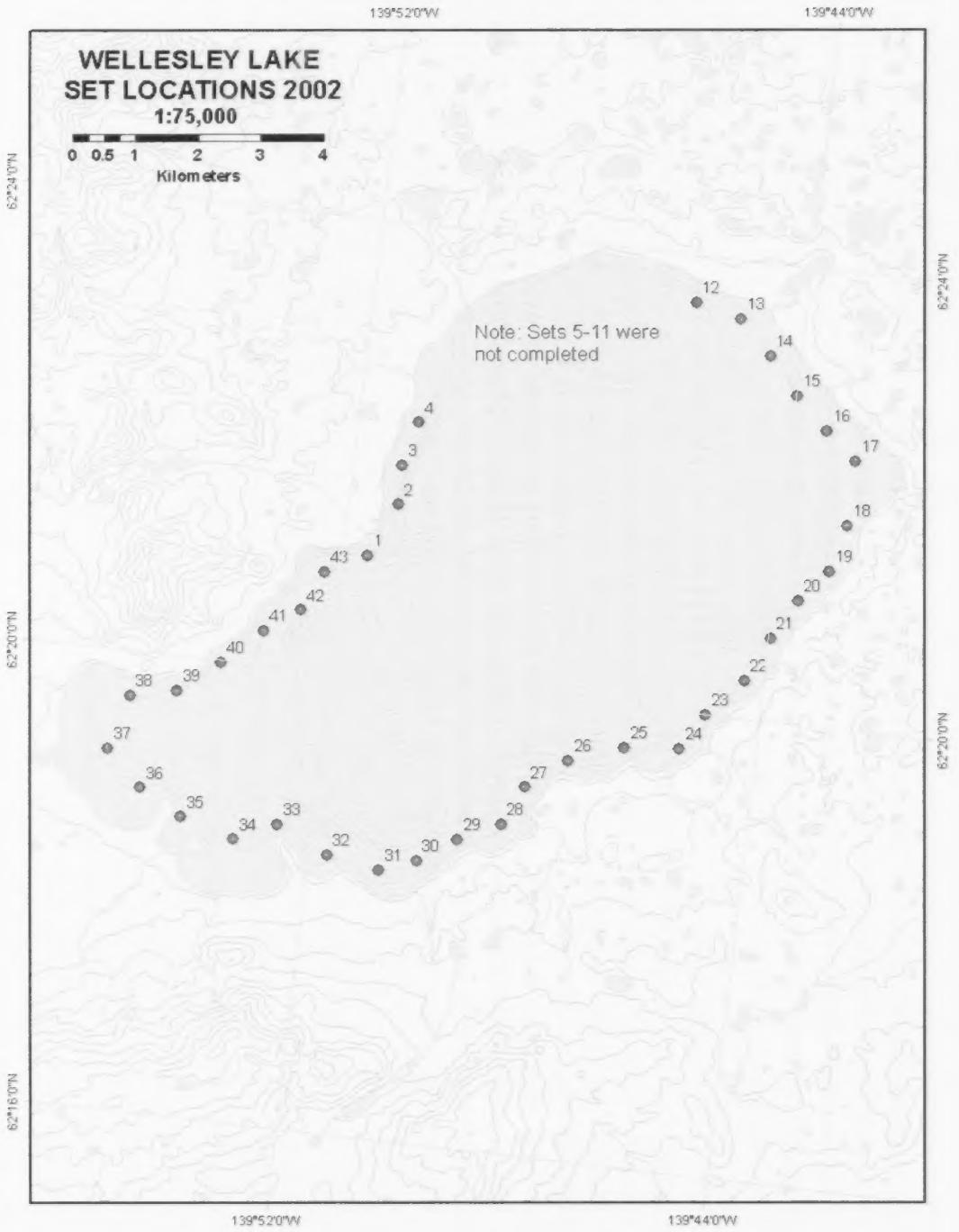
LESTER, N., M. PETZOLD, W. DUNLOP, B. MONROE, S. ORSATTI, T. SCHANER, AND D. WOOD. 1991. Sampling Ontario lake trout stocks: issues and standards. Lake trout synthesis sampling issues and methodology working group, Ontario Ministry of Natural Resources. <http://www.mnr.gov.on.ca/226944.pdf>. Accessed 2009 March 23.

Appendix 1. Wellesley Lake set locations, 1997, 2002, and 2007.




WELLESLEY LAKE
SET LOCATIONS 2002
1:75,000
0 0.5 1 2 3 4
Kilometers
Note: Sets 5-11 were not completed
139°52'0"W
139°44'0"W
62°24'0"N
62°20'0"N
62°16'0"N
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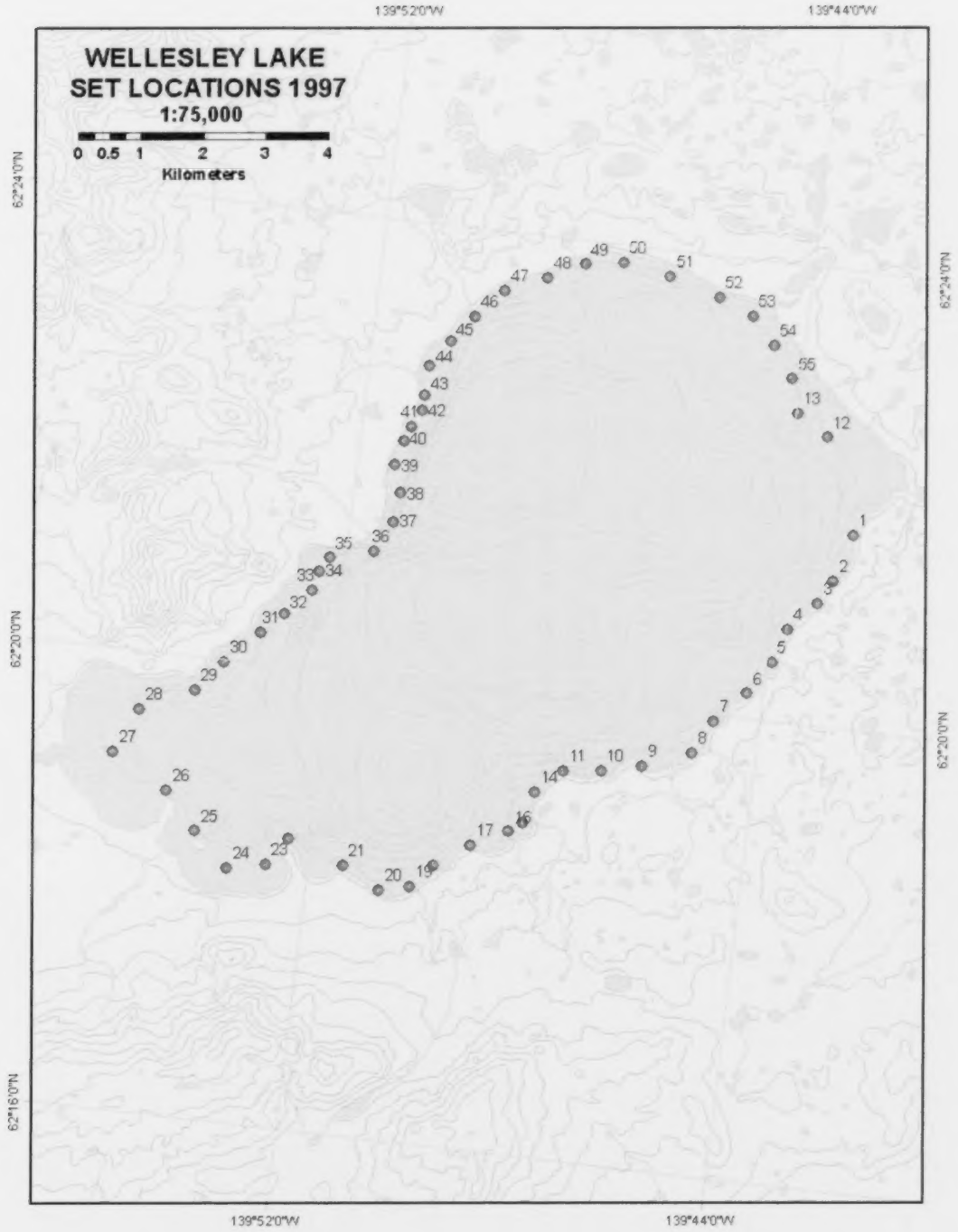
WELLESLEY LAKE
SET LOCATIONS 1997
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139°44'0"W
62°24'0"N
62°20'0"N
62°16'0"N
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Appendix 2. Wellesley Lake fish catch data 1997, 2002, 2007

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2007	11-Jun	3	7.6	Lake whitefish	510	1400	Unknown
2007	11-Jun	3	3.8	Lake whitefish	512	1800	Unknown
2007	11-Jun	3	7.6	Lake whitefish	521	1900	Unknown
2007	11-Jun	3	7.6	Northern pike	790	3600	Unknown
2007	11-Jun	4	6.4	Lake trout	586	2400	Unknown
2007	11-Jun	4	7.6	Lake whitefish	513	1900	Female
2007	11-Jun	4	6.4	Lake whitefish	510	2000	Male
2007	11-Jun	4	7.6	Lake whitefish	455	1200	Unknown
2007	11-Jun	4	7.6	Lake whitefish	495	1500	Male
2007	11-Jun	4	6.4	Northern pike	873	4700	Unknown
2007	11-Jun	4	7.6	Northern pike	780	3400	Unknown
2007	11-Jun	5	6.4	Northern pike	770	3600	Unknown
2007	11-Jun	5	6.4	Northern pike	843	4200	Unknown
2007	11-Jun	6	6.4	Lake whitefish	548	2300	Unknown
2007	11-Jun	6	6.4	Lake whitefish	553	2000	Unknown
2007	11-Jun	6	6.4	Northern pike	731	3150	Unknown
2007	11-Jun	6	6.4	Round whitefish	285	200	Unknown
2007	11-Jun	7	7.6	Lake whitefish	510	1700	Female
2007	11-Jun	7	6.4	Lake whitefish	474	1500	Male
2007	11-Jun	7	6.4	Lake whitefish	505	1600	Unknown
2007	11-Jun	7	7.6	Lake whitefish	481	1500	Male
2007	11-Jun	7	6.4	Northern pike	674	1900	Unknown
2007	11-Jun	7	3.8	Round whitefish	235	150	Unknown
2007	11-Jun	8	7.6	Lake whitefish	526	2100	Unknown
2007	11-Jun	8	7.6	Northern pike	825	3700	Unknown
2007	11-Jun	11	6.4	Lake trout	548	1500	Unknown
2007	11-Jun	11	7.6	Lake trout	730	4400	Unknown
2007	11-Jun	11	6.4	Lake whitefish	518	1750	Unknown
2007	11-Jun	11	7.6	Lake whitefish	483	1600	Unknown
2007	11-Jun	12	3.8	Lake trout	575	1500	Unknown
2007	11-Jun	12	6.4	Lake whitefish	527	1800	Unknown
2007	11-Jun	12	7.6	Northern pike	841	3500	Unknown
2007	11-Jun	12	7.6	Northern pike	687	2300	Unknown
2007	11-Jun	13	6.4	Lake whitefish	510	1550	Unknown
2007	11-Jun	13	7.6	Lake whitefish	488	1300	Female
2007	11-Jun	14	7.6	Lake whitefish	520	1800	Unknown
2007	11-Jun	15	6.4	Lake trout	566	2100	Unknown
2007	11-Jun	17	6.4	Lake whitefish	498	1300	Female
2007	11-Jun	17	7.6	Lake whitefish	518	1600	Male
2007	12-Jun	20	7.6	Lake trout			Unknown
2007	12-Jun	20	7.6	Lake whitefish	340	600	Unknown
2007	12-Jun	20	7.6	Lake whitefish	335	500	Unknown
2007	12-Jun	20	7.6	Lake whitefish	335	500	Unknown
2007	12-Jun	20	7.6	Lake whitefish	350	600	Unknown
2007	12-Jun	21	7.6	Lake trout	580	2000	Unknown
2007	12-Jun	21	7.6	Lake trout	670	2500	Unknown
2007	12-Jun	21	7.6	Lake whitefish	483	1350	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2007	12-Jun	21	7.6	Lake whitefish	475	1400	Unknown
2007	12-Jun	21	7.6	Lake whitefish	505	1500	Unknown
2007	12-Jun	22	3.8	Lake whitefish	479	1400	Unknown
2007	12-Jun	22	3.8	Lake whitefish	483	1500	Unknown
2007	12-Jun	23	3.8	Lake trout	708	4100	Unknown
2007	12-Jun	23	6.4	Lake trout	730	4200	Unknown
2007	12-Jun	23	7.6	Lake trout	835	7000	Unknown
2007	12-Jun	23	6.4	Lake trout	733	4200	Unknown
2007	12-Jun	23	6.4	Lake whitefish	498	1500	Unknown
2007	12-Jun	23	7.6	Lake whitefish	373	700	Unknown
2007	12-Jun	23	6.4	Northern pike	853	4100	Unknown
2007	12-Jun	24	6.4	Lake whitefish	533	2000	Unknown
2007	12-Jun	24	7.6	Lake whitefish	496	1600	Unknown
2007	12-Jun	24	6.4	Northern pike	765	3300	Unknown
2007	12-Jun	24	7.6	Northern pike	685	2500	Unknown
2007	12-Jun	24	7.6	Northern pike	691	2800	Unknown
2007	12-Jun	25	6.4	Lake trout	565	1400	Unknown
2007	12-Jun	27	7.6	Lake whitefish	484	1800	Unknown
2007	12-Jun	27	3.8	Northern pike	740	2400	Unknown
2007	12-Jun	29	6.4	Lake trout	560	1800	Unknown
2007	12-Jun	29	6.4	Lake whitefish	483	1700	Unknown
2007	12-Jun	29	7.6	Lake whitefish	464	1500	Unknown
2007	12-Jun	31	7.6	Lake trout	703	3600	Unknown
2007	12-Jun	31	7.6	Lake whitefish	492	1500	Unknown
2007	12-Jun	31	3.8	Lake whitefish	234	250	Unknown
2007	12-Jun	31	7.6	Northern pike	722	2300	Unknown
2007	12-Jun	32	3.8	Lake trout	635	2600	Unknown
2007	12-Jun	32	3.8	Lake whitefish	504	1700	Unknown
2007	12-Jun	32	7.6	Lake whitefish	488	1450	Unknown
2007	12-Jun	32	7.6	Lake whitefish	493	1500	Unknown
2007	12-Jun	32	3.8	Northern pike	615	2000	Unknown
2007	12-Jun	32	3.8	Round whitefish	322	300	Unknown
2007	13-Jun	34	7.6	Northern pike	771	3600	Unknown
2007	13-Jun	37	7.6	Lake whitefish	503	1500	Male
2007	13-Jun	38	7.6	Lake trout	555	2050	Unknown
2007	13-Jun	38	6.4	Lake whitefish	526	1800	Unknown
2007	13-Jun	39	7.6	Lake trout	580	2200	Unknown
2007	13-Jun	39	6.4	Lake whitefish	530	1600	Unknown
2007	13-Jun	39	7.6	Lake whitefish	504	1700	Male
2007	13-Jun	39	7.6	Lake whitefish	525	1900	Female
2007	13-Jun	39	7.6	Northern pike	780	3200	Unknown
2007	13-Jun	39	3.8	Northern pike	660	2400	Unknown
2007	13-Jun	39	3.8	Round whitefish	275	250	Unknown
2007	13-Jun	40	6.4	Lake whitefish	540	1800	Unknown
2007	13-Jun	40	6.4	Lake whitefish	488	1700	Unknown
2007	13-Jun	41	6.4	Lake whitefish	520	1800	Unknown
2007	13-Jun	41	7.6	Northern pike	605	1600	Unknown
2007	13-Jun	41	7.6	Northern pike	655	2000	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2007	13-Jun	41	6.4	Northern pike	750	3200	Unknown
2007	13-Jun	42	7.6	Lake whitefish	520	1900	Unknown
2007	13-Jun	42	7.6	Lake whitefish	550	1900	Unknown
2007	13-Jun	42	7.6	Northern pike	610	1800	Unknown
2007	13-Jun	43	7.6	Lake whitefish	520	1900	Unknown
2007	13-Jun	43	7.6	Lake whitefish	500	1900	Unknown
2007	13-Jun	43	6.4	Lake whitefish	520	2000	Unknown
2007	13-Jun	43	3.8	Lake whitefish	490	1500	Unknown
2007	13-Jun	43	6.4	Lake whitefish	490	1600	Male
2007	13-Jun	43	6.4	Lake whitefish	500	1600	Female
2007	13-Jun	43	7.6	Northern pike	620	2000	Unknown
2007	13-Jun	44	7.6	Lake trout	560	1800	Unknown
2007	13-Jun	44	6.4	Lake whitefish	544	1800	Unknown
2007	13-Jun	44	7.6	Lake whitefish	515	1500	Unknown
2007	14-Jun	45	6.4	Lake whitefish	550	2200	Unknown
2007	14-Jun	45	6.4	Lake whitefish	555	2200	Unknown
2007	14-Jun	45	7.6	Lake whitefish	527	2000	Unknown
2007	14-Jun	45	3.8	Northern pike	755	3300	Unknown
2007	14-Jun	45	6.4	Northern pike	685	2400	Unknown
2007	14-Jun	46	7.6	Lake whitefish	500	1800	Unknown
2007	14-Jun	46	3.8	Lake whitefish	500	1800	Unknown
2007	14-Jun	46	7.6	Lake whitefish	535	1800	Unknown
2007	14-Jun	47	6.4	Lake whitefish	480	1500	Unknown
2007	14-Jun	47	6.4	Lake whitefish	505	1900	Unknown
2007	14-Jun	47	7.6	Lake whitefish	495	1600	Unknown
2007	14-Jun	47	7.6	Lake whitefish	505	1800	Unknown
2007	14-Jun	47	7.6	Lake whitefish	530	2000	Male
2007	14-Jun	48	7.6	Lake trout	620	2000	Unknown
2007	14-Jun	48	6.4	Lake whitefish	505	1500	Unknown
2007	14-Jun	48	7.6	Lake whitefish	520	1900	Male
2007	14-Jun	48	6.4	Lake whitefish	480	1600	Male
2007	14-Jun	49	7.6	Lake whitefish	485	1600	Unknown
2007	14-Jun	49	7.6	Lake whitefish	500	1700	Female
2007	14-Jun	49	3.8	Lake whitefish	515	1900	Male
2007	14-Jun	49	6.4	Lake whitefish	495	1600	Male
2007	14-Jun	49	7.6	Lake whitefish	525	2000	Male
2007	14-Jun	49	6.4	Lake whitefish	515	1900	Female
2002	24-Jun	1	3.8	Lake whitefish	455	1300	Unknown
2002	24-Jun	1	3.8	Lake whitefish	525	1900	Unknown
2002	24-Jun	1	6.4	Lake whitefish	565	2800	Unknown
2002	24-Jun	1	3.8	Round whitefish	230	150	Unknown
2002	24-Jun	1	6.4	Round whitefish	285	300	Unknown
2002	24-Jun	2	7.6	Lake whitefish	450	1300	Unknown
2002	24-Jun	2	6.4	Lake whitefish	470	1500	Unknown
2002	24-Jun	2	3.8	Lake whitefish	260	300	Unknown
2002	24-Jun	2	7.6	Lake whitefish	500	1800	Unknown
2002	24-Jun	3	3.8	Lake trout	550	2000	Unknown
2002	24-Jun	3	6.4	Lake whitefish	525	2100	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2002	24-Jun	3	6.4	Lake whitefish	295	400	Unknown
2002	24-Jun	3	6.4	Lake whitefish	285	300	Unknown
2002	24-Jun	3	6.4	Lake whitefish	320	400	Unknown
2002	24-Jun	3	6.4	Lake whitefish	325	500	Unknown
2002	24-Jun	3	7.6	Lake whitefish	280	300	Unknown
2002	24-Jun	3	3.8	Lake whitefish	280	200	Unknown
2002	24-Jun	3	3.8	Lake whitefish	270	200	Unknown
2002	24-Jun	4	6.4	Lake trout	640	3000	Unknown
2002	24-Jun	4	7.6	Lake trout	635	2700	Unknown
2002	24-Jun	4	7.6	Lake whitefish	355	500	Unknown
2002	24-Jun	4	7.6	Lake whitefish	350	600	Unknown
2002	24-Jun	4	7.6	Lake whitefish	320	400	Unknown
2002	24-Jun	4	7.6	Lake whitefish	345	500	Unknown
2002	24-Jun	4	7.6	Lake whitefish	345	500	Unknown
2002	24-Jun	4	7.6	Lake whitefish	345	500	Unknown
2002	24-Jun	4	7.6	Lake whitefish	330	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	280	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	310	500	Unknown
2002	24-Jun	4	6.4	Lake whitefish	280	200	Unknown
2002	24-Jun	4	6.4	Lake whitefish	340	500	Unknown
2002	24-Jun	4	6.4	Lake whitefish	300	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	270	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	330	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	285	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	285	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	355	500	Unknown
2002	24-Jun	4	6.4	Lake whitefish	315	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	295	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	295	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	305	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	310	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	290	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	300	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	290	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	355	500	Unknown
2002	24-Jun	4	6.4	Lake whitefish	285	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	300	300	Unknown
2002	24-Jun	4	3.8	Lake whitefish	310	500	Unknown
2002	24-Jun	4	3.8	Lake whitefish	290	400	Unknown
2002	24-Jun	4	3.8	Lake whitefish	360	700	Unknown
2002	24-Jun	4	3.8	Lake whitefish	305	500	Unknown
2002	24-Jun	4	7.6	Lake whitefish	325	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	270	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	350	500	Unknown
2002	24-Jun	4	6.4	Lake whitefish	275	300	Unknown
2002	24-Jun	4	6.4	Lake whitefish	310	400	Unknown
2002	24-Jun	4	6.4	Lake whitefish	280	200	Unknown
2002	24-Jun	4	3.8	Northern pike	850	3200	Unknown
2002	24-Jun	4	3.8	Round whitefish	210	100	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2002	24-Jun	4	3.8	Round whitefish	205	100	Unknown
2002	24-Jun	4	3.8	Round whitefish	225	100	Unknown
2002	24-Jun	4	3.8	Round whitefish	210	100	Unknown
2002	24-Jun	4	3.8	Round whitefish	235	200	Unknown
2002	24-Jun	4	3.8	Round whitefish	250	200	Unknown
2002	24-Jun	4	3.8	Round whitefish	215	100	Unknown
2002	27-Jun	13	7.6	Lake whitefish	510	1700	Unknown
2002	27-Jun	13	3.8	Round whitefish	220	300	Unknown
2002	27-Jun	13	3.8	Round whitefish	260	250	Unknown
2002	27-Jun	13	3.8	Round whitefish	235	150	Unknown
2002	27-Jun	13	3.8	Round whitefish	205	150	Unknown
2002	26-Jun	14	3.8	Lake whitefish	500	1400	Unknown
2002	26-Jun	14	7.6	Northern pike	500	600	Unknown
2002	26-Jun	14	3.8	Round whitefish	265	200	Unknown
2002	26-Jun	14	3.8	Round whitefish	265	200	Unknown
2002	26-Jun	14	3.8	Round whitefish	260	200	Unknown
2002	26-Jun	14	3.8	Round whitefish	270	200	Unknown
2002	26-Jun	14	3.8	Round whitefish	190	150	Unknown
2002	26-Jun	14	3.8	Round whitefish	265	200	Unknown
2002	26-Jun	14	3.8	Round whitefish	265	200	Unknown
2002	26-Jun	14	3.8	Round whitefish	275	300	Unknown
2002	26-Jun	14	3.8	Round whitefish	200	150	Unknown
2002	26-Jun	15	7.6	Lake whitefish	540	1500	Unknown
2002	26-Jun	15	7.6	Lake whitefish	520	1600	Unknown
2002	26-Jun	15	7.6	Lake whitefish	350	600	Unknown
2002	26-Jun	15	6.4	Lake whitefish	525	1600	Unknown
2002	26-Jun	15	6.4	Lake whitefish	460	1300	Unknown
2002	26-Jun	15	6.4	Lake whitefish	355	800	Unknown
2002	26-Jun	15	7.6	Lake whitefish	510	1600	Unknown
2002	26-Jun	15	6.4	Lake whitefish	340	700	Unknown
2002	25-Jun	17	7.6	Lake trout	590	2500	Unknown
2002	25-Jun	17	6.4	Lake whitefish	530	2000	Unknown
2002	25-Jun	17	6.4	Lake whitefish	520	1900	Unknown
2002	25-Jun	17	7.6	Lake whitefish	485	1500	Unknown
2002	24-Jun	18	6.4	Lake whitefish	510	1700	Unknown
2002	24-Jun	18	6.4	Lake whitefish	520	2200	Unknown
2002	24-Jun	18	3.8	Lake whitefish	515	1800	Unknown
2002	24-Jun	19	6.4	Lake trout	640	2900	Unknown
2002	24-Jun	19	6.4	Lake trout	575	2100	Unknown
2002	24-Jun	19	7.6	Lake whitefish	455	1100	Unknown
2002	24-Jun	19	7.6	Lake whitefish	460	1200	Unknown
2002	24-Jun	19	7.6	Lake whitefish	490	1500	Unknown
2002	24-Jun	19	7.6	Lake whitefish	325	500	Unknown
2002	24-Jun	19	3.8	Round whitefish	215	100	Unknown
2002	24-Jun	20	6.4	Lake whitefish	490	1500	Unknown
2002	24-Jun	20	6.4	Lake whitefish	540	1800	Unknown
2002	24-Jun	20	3.8	Round whitefish	230	100	Unknown
2002	25-Jun	21	7.6	Lake whitefish	530	1900	Unknown
2002	25-Jun	21	7.6	Lake whitefish	485	1400	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2002	25-Jun	21	6.4	Lake whitefish	505	1600	Unknown
2002	25-Jun	22	6.4	Lake whitefish	395	800	Unknown
2002	25-Jun	22	7.6	Northern pike	855	4300	Unknown
2002	25-Jun	23	6.4	Lake trout	720	4200	Unknown
2002	25-Jun	24	3.8	Lake trout	495	1400	Unknown
2002	25-Jun	24	3.8	Lake whitefish	500	1600	Unknown
2002	25-Jun	24	7.6	Lake whitefish	530	2000	Unknown
2002	25-Jun	24	7.6	Lake whitefish	515	2200	Unknown
2002	25-Jun	25	6.4	Lake whitefish	520	2000	Unknown
2002	25-Jun	25	6.4	Lake whitefish	500	1700	Unknown
2002	25-Jun	26	6.4	Lake whitefish	520	2000	Unknown
2002	25-Jun	26	6.4	Lake whitefish	545	2700	Unknown
2002	25-Jun	27	6.4	Lake whitefish	480	1600	Unknown
2002	25-Jun	27	6.4	Lake whitefish	480	1300	Unknown
2002	25-Jun	27	7.6	Lake whitefish	500	1200	Unknown
2002	25-Jun	28	6.4	Lake whitefish	470	1300	Unknown
2002	25-Jun	28	6.4	Lake whitefish	390	700	Unknown
2002	25-Jun	28	6.4	Lake whitefish	380	600	Unknown
2002	25-Jun	28	7.6	Lake whitefish	530	2200	Unknown
2002	25-Jun	30	6.4	Lake whitefish	285	200	Unknown
2002	25-Jun	30	6.4	Lake whitefish	315	400	Unknown
2002	25-Jun	30	6.4	Lake whitefish	270	200	Unknown
2002	25-Jun	30	6.4	Round whitefish	270	200	Unknown
2002	25-Jun	30	6.4	Round whitefish	300	300	Unknown
2002	25-Jun	31	6.4	Lake trout	660	3500	Unknown
2002	25-Jun	31	3.8	Lake trout	760	3800	Unknown
2002	25-Jun	31	6.4	Lake whitefish	345	400	Unknown
2002	25-Jun	31	6.4	Lake whitefish	315	300	Unknown
2002	25-Jun	31	6.4	Lake whitefish	295	300	Unknown
2002	25-Jun	31	3.8	Lake whitefish	155	100	Unknown
2002	25-Jun	31	3.8	Lake whitefish	305	300	Unknown
2002	25-Jun	31	6.4	Lake whitefish	320	400	Unknown
2002	25-Jun	31	3.8	Round whitefish	260	100	Unknown
2002	25-Jun	31	3.8	Round whitefish	215	100	Unknown
2002	25-Jun	31	3.8	Round whitefish	260	100	Unknown
2002	25-Jun	31	3.8	Round whitefish	220	100	Unknown
2002	25-Jun	32	6.4	Lake whitefish	510	1900	Unknown
2002	25-Jun	32	6.4	Northern pike	790	3200	Unknown
2002	26-Jun	34	7.6	Lake whitefish	505	1600	Unknown
2002	26-Jun	34	7.6	Lake whitefish	480	1000	Unknown
2002	26-Jun	34	6.4	Lake whitefish	280	200	Unknown
2002	26-Jun	34	3.8	Lake whitefish	265	200	Unknown
2002	26-Jun	34	7.6	Lake whitefish	520	1600	Unknown
2002	26-Jun	34	6.4	Northern pike	840	2600	Unknown
2002	26-Jun	34	3.8	Round whitefish	195	100	Unknown
2002	26-Jun	36	7.6	Lake whitefish	530	1600	Unknown
2002	26-Jun	37	3.8	Lake whitefish	457	1400	Unknown
2002	26-Jun	37	3.8	Northern pike	740	2500	Unknown
2002	26-Jun	39	6.4	Northern pike	780	3100	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
2002	26-Jun	39	7.6	Northern pike	785	3100	Unknown
2002	26-Jun	39	6.4	Round whitefish	305	400	Unknown
2002	26-Jun	39	3.8	Round whitefish	235	100	Unknown
2002	26-Jun	40	7.6	Lake whitefish	270	200	Unknown
2002	26-Jun	40	6.4	Lake whitefish	280	1100	Unknown
2002	26-Jun	40	6.4	Lake whitefish	270	200	Unknown
2002	26-Jun	40	6.4	Lake whitefish	305	300	Unknown
2002	26-Jun	40	6.4	Lake whitefish	295	200	Unknown
2002	26-Jun	40	3.8	Lake whitefish	515	1600	Unknown
2002	26-Jun	40	6.4	Round whitefish	285	200	Unknown
2002	26-Jun	41	3.8	Lake trout	770	3200	Unknown
2002	26-Jun	41	3.8	Lake trout	550	1700	Unknown
2002	26-Jun	41	3.8	Lake whitefish	525	1800	Unknown
2002	26-Jun	41	3.8	Lake whitefish	445	1000	Unknown
2002	26-Jun	41	3.8	Lake whitefish	440	900	Unknown
2002	26-Jun	41	6.4	Lake whitefish	495	1700	Unknown
2002	26-Jun	41	3.8	Lake whitefish	430	900	Unknown
2002	26-Jun	41	6.4	Northern pike	710	2200	Unknown
2002	26-Jun	41	7.6	Northern pike	800	2800	Unknown
2002	26-Jun	41	3.8	Round whitefish	300	300	Unknown
2002	26-Jun	42	7.6	Lake trout	555	1500	Unknown
2002	26-Jun	42	7.6	Lake whitefish	565	1800	Unknown
1997	11-Jun	1	6.4	Lake whitefish	535	1550	Unknown
1997	11-Jun	1	7.6	Lake whitefish	510	1400	Unknown
1997	11-Jun	2	6.4	Lake trout	590	2100	Unknown
1997	11-Jun	2	7.6	Lake trout	865	5800	Unknown
1997	11-Jun	2	6.4	Lake whitefish	530	1900	Unknown
1997	11-Jun	2	6.4	Lake whitefish	476	1200	Unknown
1997	11-Jun	2	7.6	Lake whitefish	530	1900	Unknown
1997	11-Jun	2	3.8	Lake whitefish	537	1900	Unknown
1997	11-Jun	3	6.4	Lake whitefish	555	1700	Unknown
1997	11-Jun	4	3.8	Lake whitefish	560	1800	Unknown
1997	11-Jun	5	7.6	Lake whitefish	525	1900	Unknown
1997	11-Jun	6	6.4	Lake whitefish	520	1700	Unknown
1997	11-Jun	7	6.4	Lake whitefish	520	1800	Unknown
1997	11-Jun	7	6.4	Lake whitefish	550	2000	Unknown
1997	11-Jun	7	3.8	Lake whitefish	490	1100	Unknown
1997	11-Jun	7	6.4	Lake whitefish	550	2000	Unknown
1997	11-Jun	8	6.4	Lake whitefish	543	1900	Unknown
1997	11-Jun	9	3.8	Lake trout	623	2100	Unknown
1997	11-Jun	9	6.4	Lake whitefish	560	2100	Unknown
1997	11-Jun	9	7.6	Lake whitefish	565	2050	Unknown
1997	11-Jun	9	6.4	Lake whitefish	567	2200	Unknown
1997	11-Jun	10	7.6	Lake trout	600	2350	Unknown
1997	11-Jun	10	3.8	Lake whitefish	494	1250	Unknown
1997	11-Jun	10	6.4	Lake whitefish	527	1550	Unknown
1997	11-Jun	10	7.6	Lake whitefish	579	2200	Unknown
1997	11-Jun	11	7.6	Lake whitefish	557	2000	Unknown
1997	11-Jun	11	3.8	Lake whitefish	524	1550	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
1997	11-Jun	11	6.4	Lake whitefish	485	1100	Unknown
1997	11-Jun	11	6.4	Lake whitefish	528	1500	Unknown
1997	11-Jun	11	3.8	Northern pike	845	4300	Unknown
1997	11-Jun	11	6.4	Northern pike	667	1900	Unknown
1997	11-Jun	11	7.6	Northern pike	795	3000	Unknown
1997	11-Jun	11	3.8	Round whitefish	244	100	Unknown
1997	11-Jun	11	3.8	Round whitefish	230	100	Unknown
1997	11-Jun	11	3.8	Round whitefish	267	100	Unknown
1997	11-Jun	12	6.4	Lake whitefish	535	1900	Unknown
1997	11-Jun	12	3.8	Round whitefish	230	100	Unknown
1997	11-Jun	13	6.4	Lake trout	875	10000	Unknown
1997	11-Jun	13	6.4	Lake whitefish	525	1900	Unknown
1997	11-Jun	13	6.4	Lake whitefish	518	1800	Unknown
1997	11-Jun	13	3.8	Lake whitefish	525	1800	Unknown
1997	11-Jun	13	7.6	Lake whitefish	597	2500	Unknown
1997	12-Jun	14	7.6	Lake whitefish	540	1800	Unknown
1997	12-Jun	14	7.6	Lake whitefish	530	1500	Unknown
1997	12-Jun	17	6.4	Lake whitefish	550	1600	Unknown
1997	12-Jun	18	6.4	Lake whitefish	536	1500	Unknown
1997	12-Jun	18	3.8	Lake whitefish	557	1850	Unknown
1997	12-Jun	19	6.4	Lake trout	760	5700	Unknown
1997	12-Jun	19	7.6	Lake whitefish	497	1550	Unknown
1997	12-Jun	19	6.4	Lake whitefish	525	1600	Unknown
1997	12-Jun	19	7.6	Lake whitefish	530	1400	Unknown
1997	12-Jun	19	6.4	Lake whitefish	508	1500	Unknown
1997	12-Jun	19	6.4	Lake whitefish	545	1700	Unknown
1997	12-Jun	19	6.4	Northern pike	780	1750	Unknown
1997	12-Jun	19	7.6	Northern pike	760	2350	Unknown
1997	12-Jun	20	3.8	Lake trout	610	2100	Unknown
1997	12-Jun	20	6.4	Lake whitefish	585	1600	Unknown
1997	12-Jun	20	3.8	Lake whitefish	585	1800	Unknown
1997	12-Jun	20	3.8	Lake whitefish	545	1500	Unknown
1997	12-Jun	20	3.8	Lake whitefish	525	1500	Unknown
1997	12-Jun	21	7.6	Lake whitefish	535	1600	Unknown
1997	12-Jun	21	6.4	Northern pike	635	2000	Unknown
1997	12-Jun	22	7.6	Lake whitefish	545	1800	Unknown
1997	12-Jun	22	7.6	Lake whitefish	525	1700	Unknown
1997	12-Jun	22	7.6	Lake whitefish	485	1500	Unknown
1997	12-Jun	23	7.6	Lake whitefish	535	1700	Unknown
1997	12-Jun	23	7.6	Lake whitefish	530	1700	Unknown
1997	12-Jun	23	6.4	Lake whitefish	495	1400	Unknown
1997	12-Jun	23	6.4	Lake whitefish	525	1600	Unknown
1997	12-Jun	23	3.8	Round whitefish	230	150	Unknown
1997	12-Jun	23	3.8	Round whitefish	225	150	Unknown
1997	12-Jun	23	3.8	Round whitefish	225	100	Unknown
1997	12-Jun	23	3.8	Round whitefish	230	100	Unknown
1997	12-Jun	23	3.8	Round whitefish	200	100	Unknown
1997	12-Jun	23	3.8	Round whitefish	195	100	Unknown
1997	12-Jun	24	6.4	Lake whitefish	545	1700	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
1997	12-Jun	24	6.4	Lake whitefish	490	1500	Unknown
1997	12-Jun	24	6.4	Lake whitefish	530	1700	Unknown
1997	13-Jun	25	6.4	Lake trout	385	700	Unknown
1997	13-Jun	25	6.4	Lake whitefish	550	1600	Unknown
1997	13-Jun	25	6.4	Lake whitefish	530	1500	Unknown
1997	13-Jun	25	3.8	Lake whitefish	555	1900	Unknown
1997	13-Jun	25	6.4	Northern pike	830	3450	Unknown
1997	13-Jun	25	3.8	Round whitefish	165	100	Unknown
1997	13-Jun	26	3.8	Burbot	800	4500	Unknown
1997	13-Jun	26	6.4	Lake whitefish	500	1400	Unknown
1997	13-Jun	26	6.4	Lake whitefish	520	1550	Unknown
1997	13-Jun	26	3.8	Round whitefish	217	150	Unknown
1997	13-Jun	26	3.8	Round whitefish	220	150	Unknown
1997	13-Jun	26	3.8	Round whitefish	225	150	Unknown
1997	13-Jun	28	7.6	Lake trout	620	2450	Unknown
1997	13-Jun	28	7.6	Lake whitefish	465	1100	Unknown
1997	13-Jun	29	3.8	Lake whitefish	500	1100	Unknown
1997	13-Jun	29	3.8	Lake whitefish	530	1600	Unknown
1997	13-Jun	29	6.4	Lake whitefish	510	1500	Unknown
1997	13-Jun	29	6.4	Lake whitefish	500	1700	Unknown
1997	13-Jun	29	3.8	Round whitefish	240	200	Unknown
1997	13-Jun	30	6.4	Lake whitefish	525	1600	Unknown
1997	13-Jun	30	6.4	Lake whitefish	490	1500	Unknown
1997	13-Jun	30	3.8	Lake whitefish	530	2000	Unknown
1997	13-Jun	30	6.4	Lake whitefish	553	2000	Unknown
1997	13-Jun	30	6.4	Lake whitefish	510	1350	Unknown
1997	13-Jun	30	7.6	Northern pike	840	3000	Unknown
1997	13-Jun	30	3.8	Round whitefish	160	100	Unknown
1997	13-Jun	31	6.4	Lake whitefish	540	1450	Unknown
1997	13-Jun	31	6.4	Lake whitefish	555	1900	Unknown
1997	13-Jun	31	6.4	Lake whitefish	535	1450	Unknown
1997	13-Jun	31	7.6	Lake whitefish	543	1500	Unknown
1997	13-Jun	31	7.6	Lake whitefish	523	1200	Unknown
1997	13-Jun	31	7.6	Lake whitefish	555	1600	Unknown
1997	13-Jun	32	3.8	Lake trout	475	850	Unknown
1997	13-Jun	32	6.4	Lake whitefish	512	1500	Unknown
1997	13-Jun	32	6.4	Lake whitefish	555	1600	Unknown
1997	13-Jun	32	6.4	Lake whitefish	525	1600	Unknown
1997	13-Jun	32	6.4	Lake whitefish	515	1350	Unknown
1997	13-Jun	32	6.4	Lake whitefish	560	1700	Unknown
1997	13-Jun	32	7.6	Lake whitefish	520	1350	Unknown
1997	13-Jun	32	7.6	Lake whitefish	365	800	Unknown
1997	13-Jun	32	7.6	Lake whitefish	490	1000	Unknown
1997	13-Jun	33	6.4	Lake whitefish	510	1450	Unknown
1997	13-Jun	33	7.6	Northern pike	835	3400	Unknown
1997	14-Jun	34	6.4	Lake whitefish	540	1500	Unknown
1997	14-Jun	34	6.4	Lake whitefish	520	1900	Unknown
1997	14-Jun	34	6.4	Lake whitefish	520	1100	Unknown
1997	14-Jun	34	6.4	Lake whitefish	510	1350	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
1997	14-Jun	34	6.4	Lake whitefish	500	1000	Unknown
1997	14-Jun	34	6.4	Northern pike	670	2400	Unknown
1997	14-Jun	34	6.4	Round whitefish	320	300	Unknown
1997	14-Jun	34	6.4	Round whitefish	305	300	Unknown
1997	14-Jun	34	3.8	Round whitefish	205	150	Unknown
1997	14-Jun	35	3.8	Lake whitefish	510	1300	Unknown
1997	14-Jun	35	3.8	Lake whitefish	550	2000	Unknown
1997	14-Jun	35	3.8	Round whitefish	230	150	Unknown
1997	14-Jun	36	6.4	Lake whitefish	490	1800	Unknown
1997	14-Jun	36	7.6	Northern pike	826	2600	Unknown
1997	14-Jun	36	7.6	Northern pike	750	2800	Unknown
1997	14-Jun	37	6.4	Lake trout	695	2500	Unknown
1997	14-Jun	37	3.8	Lake trout	748	5000	Unknown
1997	14-Jun	37	7.6	Lake trout	695	3000	Unknown
1997	14-Jun	37	3.8	Lake trout	850	9700	Unknown
1997	14-Jun	37	6.4	Lake whitefish	520	1400	Unknown
1997	14-Jun	37	6.4	Lake whitefish	565	1500	Unknown
1997	14-Jun	37	6.4	Lake whitefish	530	1600	Unknown
1997	14-Jun	38	7.6	Lake trout	570	1300	Unknown
1997	14-Jun	38	7.6	Lake trout	600	2000	Unknown
1997	14-Jun	38	3.8	Lake trout	660	3300	Unknown
1997	14-Jun	38	6.4	Lake trout	755	4500	Unknown
1997	14-Jun	38	6.4	Lake trout	680	3500	Unknown
1997	14-Jun	38	6.4	Lake whitefish	520	1400	Unknown
1997	14-Jun	38	6.4	Lake whitefish	509	1300	Unknown
1997	14-Jun	38	7.6	Lake whitefish	580	1500	Unknown
1997	14-Jun	38	3.8	Round whitefish	210	100	Unknown
1997	14-Jun	39	7.6	Lake whitefish	555	1500	Unknown
1997	14-Jun	39	6.4	Lake whitefish	520	1200	Unknown
1997	14-Jun	39	6.4	Lake whitefish	505	1200	Unknown
1997	14-Jun	40	7.6	Lake whitefish	565	1800	Unknown
1997	14-Jun	40	7.6	Lake whitefish	557	1800	Unknown
1997	14-Jun	40	6.4	Lake whitefish	470	1100	Unknown
1997	14-Jun	40	6.4	Lake whitefish	530	1600	Unknown
1997	14-Jun	40	6.4	Lake whitefish	555	1800	Unknown
1997	14-Jun	40	6.4	Lake whitefish	582	1800	Unknown
1997	14-Jun	40	7.6	Lake whitefish	560	1800	Unknown
1997	14-Jun	40	7.6	Lake whitefish	560	1800	Unknown
1997	14-Jun	41	7.6	Lake trout	645	2200	Unknown
1997	14-Jun	41	7.6	Lake whitefish	540	1900	Unknown
1997	14-Jun	41	7.6	Lake whitefish	540	1500	Unknown
1997	14-Jun	41	7.6	Lake whitefish	530	1300	Unknown
1997	14-Jun	41	3.8	Round whitefish	240	150	Unknown
1997	14-Jun	41	3.8	Round whitefish	210	100	Unknown
1997	14-Jun	42	7.6	Lake trout	670	3000	Unknown
1997	14-Jun	42	6.4	Lake whitefish	570	2100	Unknown
1997	14-Jun	42	6.4	Lake whitefish	510	1600	Unknown
1997	14-Jun	42	7.6	Lake whitefish	540	1800	Unknown
1997	14-Jun	42	6.4	Lake whitefish	540	1800	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
1997	14-Jun	42	6.4	Lake whitefish	540	1800	Unknown
1997	14-Jun	42	6.4	Lake whitefish	520	1600	Unknown
1997	14-Jun	42	6.4	Northern pike	740	2700	Unknown
1997	14-Jun	43	6.4	Lake whitefish	410	1000	Unknown
1997	14-Jun	43	6.4	Lake whitefish	430	1600	Unknown
1997	14-Jun	43	6.4	Lake whitefish	563	1700	Unknown
1997	14-Jun	43	6.4	Lake whitefish	480	1800	Unknown
1997	14-Jun	43	6.4	Lake whitefish	520	1500	Unknown
1997	14-Jun	43	7.6	Lake whitefish	520	1700	Unknown
1997	14-Jun	43	7.6	Lake whitefish	490	1500	Unknown
1997	14-Jun	43	6.4	Lake whitefish	540	1600	Unknown
1997	14-Jun	43	6.4	Lake whitefish	550	1800	Unknown
1997	15-Jun	44	7.6	Lake whitefish	490	1200	Unknown
1997	15-Jun	44	7.6	Lake whitefish	540	1900	Unknown
1997	15-Jun	44	6.4	Northern pike	750	2300	Unknown
1997	15-Jun	45	3.8	Lake trout	747	4700	Unknown
1997	15-Jun	45	3.8	Lake trout	330	350	Unknown
1997	15-Jun	45	6.4	Lake whitefish	525	1400	Unknown
1997	15-Jun	45	7.6	Lake whitefish	545	1900	Unknown
1997	15-Jun	45	7.6	Lake whitefish	520	1400	Unknown
1997	15-Jun	45	3.8	Northern pike	850	4000	Unknown
1997	15-Jun	46	6.4	Lake whitefish	485	1300	Unknown
1997	15-Jun	46	7.6	Lake whitefish	580	2000	Unknown
1997	15-Jun	47	7.6	Lake whitefish	465	1000	Unknown
1997	15-Jun	47	6.4	Northern pike	510	1400	Unknown
1997	15-Jun	47	6.4	Northern pike	475	1200	Unknown
1997	15-Jun	47	6.4	Northern pike	735	3450	Unknown
1997	15-Jun	48	3.8	Lake trout	670	3400	Unknown
1997	15-Jun	48	6.4	Lake whitefish	505	1300	Unknown
1997	15-Jun	48	7.6	Lake whitefish	530	1500	Unknown
1997	15-Jun	48	7.6	Lake whitefish	520	1400	Unknown
1997	15-Jun	50	7.6	Lake whitefish	550	1700	Unknown
1997	15-Jun	50	6.4	Lake whitefish	565	1600	Unknown
1997	15-Jun	50	7.6	Lake whitefish	530	1600	Unknown
1997	15-Jun	50	7.6	Lake whitefish	580	2000	Unknown
1997	15-Jun	50	6.4	Northern pike	840	3000	Unknown
1997	15-Jun	51	6.4	Lake whitefish	532	1500	Unknown
1997	15-Jun	52	7.6	Lake whitefish	540	1500	Unknown
1997	15-Jun	52	6.4	Lake whitefish	590	2000	Unknown
1997	15-Jun	52	6.4	Lake whitefish	540	1700	Unknown
1997	15-Jun	52	3.8	Round whitefish	250	150	Unknown
1997	15-Jun	53	7.6	Lake trout	740	2700	Unknown
1997	15-Jun	53	3.8	Lake trout	560	2100	Unknown
1997	15-Jun	53	7.6	Lake whitefish	562	1500	Unknown
1997	15-Jun	53	6.4	Lake whitefish	555	1400	Unknown
1997	15-Jun	53	6.4	Lake whitefish	550	1400	Unknown
1997	15-Jun	53	7.6	Northern pike	740	2700	Unknown
1997	15-Jun	54	6.4	Lake whitefish	530	2000	Unknown
1997	15-Jun	54	6.4	Lake whitefish	530	2000	Unknown

Year	Sample Date	Set Number	Mesh Size (cm)	Species	Fork Length (mm)	Weight (g)	Sex
1997	15-Jun	54	7.6	Lake whitefish	530	1700	Unknown
1997	15-Jun	54	3.8	Round whitefish	220	100	Unknown
1997	15-Jun	55	6.4	Lake whitefish	550	2000	Unknown